

Release notes for ENDF/B Development dec-007_N_016
evaluation

ENDF
B-VII.dev

October 13, 2016

- **fizcon** Warnings:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.
MAT= 73, MF= 1, MT=451 (1): Ran out of MATs

```
ERROR(S) FOUND IN MAT= 73, MF= 1, MT=451
ZA SHOULD BE SET TO 1.73000E+02
```

- **fizcon** Errors:

1. A discrete gamma energy is not energetically possible for the given Q value
MAT= 73, MF= 8, MT=457 (1): Eg too big

```
ERROR(S) FOUND IN MAT= 73, MF= 8, MT=457
E(DISCRETE) > Q E= 1.81730E+06 Q= 0.00000E+00
```

2. A discrete gamma energy is not energetically possible for the given Q value
MAT= 73, MF= 8, MT=457 (2): Eg too big

```
ERROR(S) FOUND IN MAT= 73, MF= 8, MT=457
E(DISCRETE) > Q E= 2.01190E+06 Q= 0.00000E+00
```

3. Energies released in decay not adding up!
MAT= 73, MF= 8, MT=457 (3): Bad energy sum

```
ERROR(S) FOUND IN MAT= 73, MF= 8, MT=457
ALPHA MULTIPLICITY SUMUP FAILURE
WHOLE= 0.00000E+00 SUM= 1.20065E-05
```